

TYLER JAMES NEWTON

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EDUCATION:

Ph.D. Earth Sciences, University of Oregon, *in progress* (2016-present)
B.S. Geology with Honors, University of Maryland, 2013

RESEARCH APPOINTMENTS:

Graduate Student Researcher	- University of Oregon	2016-present
Visiting Graduate Student Researcher	- University of Washington	2017, 2018
Undergraduate Research Assistant	- University of Maryland	2011-2013
Intern (InFOCμS group)	- NASA Goddard Space Flight Center	2011

TEACHING APPOINTMENTS:

Teaching Assistant	- University of Oregon	2016-present
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- *Courses: Advanced Scientific Computing, Fault Mechanics, Tectonics, Introductory Earth Science*

PROFESSIONAL APPOINTMENTS:

Intern	- Pacific Northwest Seismic Network	2020-present
Geologist	- Environmental Resources Management Inc.	2013-2016
Machinist	- Kelco Inc.	2008-2011

PEER-REVIEWED MANUSCRIPTS:

- **Newton, T. J.**, Thomas, A. M. (2020). Stress orientations in the Nankai Trough constrained using seismic and aseismic slip. *Journal of Geophysical Research: Solid Earth*. <https://doi.org/10.1029/2020JB019841>

NON-REFEREED PAPERS:

- Miller, I. M., Morgan, H., Mauger, G., **Newton, T.**, Weldon, R., Schmidt, D., Welch, M., Grossman, E. (2018). Projected Sea Level Rise for Washington State – A 2018 Assessment. *Prepared for the Washington Coastal Resilience Project*.
- **Newton, T.** (2013). Geochemistry of the Timberville Zn-Pb District, Rockingham County, VA. *University of Maryland Honors Bachelor of Science Thesis*. Advisors: McDonough, W.F., Candela, P.A., Piccoli, P.M.

DISTINCTIONS:

Smith Scholarship, 2020
UO Research Recognition Award, 2020
IRIS/UNAVCO Earth in 4D Travel Scholarship, 2019
ASPRS Photogrammetry Scholarship, 2019
Wikipedia Scientist Fellowship, 2019
UO Special Opps Travel Award, 2018
Stovall Fellowship, 2018
Marthe E. Smith Memorial Science Scholarship, 2017
Weiser Scholarship, 2017
University of Maryland Excel Research Scholarship, 2013
Mineralogical Society of America Undergraduate Award, 2012
NASA Certificate of Appreciation (InFOCμS), 2011

FIRST AUTHOR CONFERENCE PRESENTATIONS:

Relating Microseismicity to Fault Geometry at the Rattlesnake Ridge Landslide

Newton, T. J., Thomas, A. M., DeLong, S. B., Pickering, A. J.

2019 poster at the American Geophysical Union meeting, San Francisco, CA

Vertical Land Motion in Western Washington: Separating Cascadia Locking from Other Sources

Newton, T. J., Weldon R. J., Schmidt D. A., Miller I. M.

2019 poster at the Seismological Society of America meeting, Seattle, WA

Stress Regime of the Nankai Trough Megathrust: A Stress Analysis Incorporating Geodetic and Seismic Fault Slip

Newton, T. J., Lin J-T., Thomas A.

2019 poster at the Seismological Society of America meeting, Seattle, WA

Stress regime of the Nankai trough

Newton, T. J., Thomas A. M.

2018 poster at the International Joint Workshop on Slow Earthquakes, Fukuoka, Japan

Stress orientations in the Nankai trough region of Japan

Newton, T. J., Thomas A. M., Bletery Q.

2017 poster at the American Geophysical Union meeting, New Orleans, LA

A multi-methods approach for assessing vertical land motion in coastal Washington

Newton T. J., Weldon R., Welch M., Schmidt D., Miller I., Mauger G., Grossman E.

2017 talk at Northwest Climate Conference, Tacoma, WA

FIELD EXPERIENCE:

Pacific Northwest Seismic Network Internship (July-present 2020)

Installed solar-powered broadband ShakeAlert station (n=1, ids: JAZZ).

Rattlesnake Ridge Landslide (2018-2019)

Deployed 40 Fairfield Nodal 5 Hz 3C seismometers for a continuous four-month period. Assisted with terrestrial LiDAR scans.

Cholame Dense Array Experiment (July-October 2018)

Deployed 80 Fairfield Nodal 5 Hz 3C seismometers for a continuous three-month period.

Environmental Resources Management (2013-2016)

Extensive experience organizing and implementing field campaigns focused on the remediation of contaminated sites. Served as field safety officer and subsurface clearance specialist.

SERVICE:

Peer Reviewer (n=8), Copy Editor (n=7), Ask-A-Scientist (n=1), *Journal of Emerging Investigators*, (2019-present)

Graduate Student Representative, *University of Oregon, Department of Earth Science*, (2019-present)

Graduate Student Liaison, *University of Oregon Earth Sciences Honor Society*, (2017-2019)

Contributions: organized and presented a series of workshops to prepare undergraduates for graduate school, and careers in industry and government.

MENTORING:

Cadie Cagle (UO Undergraduate, JUMP program, 2019-present), Alice Yeager (UO Undergraduate, JUMP program, 2019-2020), Chloe Chvatal (UO Undergraduate, Thomas Lab, 2018-2019), Ty Amorosano (McGill University, IRIS Summer Intern, 2018)